

THE TECH

VOL. XXVIII. No. 4

BOSTON, MASS., WEDNESDAY, OCTOBER 7, 1908

PRICE THREE CENTS

FOOTBALL PLANS OF 1911 ANNOUNCED

First Game of Season Next Saturday with Natick High at Field

FRESHMEN LIVEN UP

Twenty-Six Report for Practice and Prospects are Much Brighter Than Before

Manager Williams of the sophomore football team has announced a promising schedule for this season. The squad is hard at work, and enough men have reported to make up two teams. Scrub games between these teams give the men excellent training, and a large score is looked for on Field Day by the 1911 aggregation.

The schedule follows:

Sat., Oct. 10. Natick High at Field.
Wed., Oct. 14. Hyde Park at Field
(Pending).

Sat., Oct. 17. Bridgewater Normal at Bridgewater.

Wed., Oct. 21. Watertown or Rindge M. T. S. at Field.

Sat., Oct. 24. Lowell Textile at Lowell.

Wed., Oct. 28. Somerville High at Somerville.

Sat., Oct. 31. Wellesley High at Wellesley (Pending).

Fri., Nov. 6. Freshmen at Field.

The speeches at the freshmen dinner seem to have had the desired results, if one judge by the way the Brookline ears were filled with suit-case-baden men getting off at Pond Ave.

The procession headed toward the field consisted of the following freshmen: J. E. Whittlesey, F. R. Fuller, S. R. MacKeller, F. H. Dierks, R. H. Riddell, J. A. Boyer, G. W. Forester, J. H. Ward, H. G. Watkins, W. E. Burns, C. B. Busby, B. Torrey, M. C. Cherry, H. E. Kebbon, H. W. Hall, E. C. Van Syckel, E. C. Mayers, H. Greenleaf, N. McSage, J. S. Selfridge, S. W. Selfridge, R. W.

(Continued on page 3.)

MEET TO SUPPORT TAFT

Republican Club Elects Officers Plans Torchlight Parade

Taft men of the Institute turned out well at the Republican Club Meeting, Monday noon.

The club was organized under the direction of Mr. Van Rensselaer, chairman of the second department of the Repub-National College League, who spoke at the meeting of the work done by this league. He gave a brief outline of its history. Mr. Van Rensselaer also spoke of the work this league expected to do in the future and urged that the Massachusetts Institute of Technology form a club and take active interest in the coming campaign. In the fifteen colleges of Massachusetts, Rhode Island, and Connecticut, which had Republican clubs there are 12,000 men enrolled.

G. T. Bridgeman 1909 acted as chairman and suggested that officers for the coming year be elected. Channing Turner 1908, editor-in-chief of the Tech, was elected president of the Technology Republican Club, and D. C. McMurtrie 1910, editor-in-chief of Technique 1910, was made vice-president. G. T. Bridgeman 1909 will act as secretary-treasurer. Members of an executive committee from each class were chosen as follows: Carl W. Gram for 1909, Tom W. Saul for 1910, L. B. Odell for 1911, and M. McL. Sage for 1912.

The two purposes of this club will be to have the members work at the polls this November, and if they are voters, go home to vote.

The Republicans at the Institute will register and receive shingles of the club on a date to be announced later. The club will join with the clubs of the other New England colleges in a torchlight procession on October 30.

TECH HALF POINT BEHIND WILLIAMS

Tennis Tournaments for Intercollegiate Championship

TEAM SELECTS OFFICERS

T. B. Parker 1911 to be President and Captain for the Season

If Technology can win the tennis championship this year there will be another cup in the Union. At present Tech has 6 to Williams' 6 and one-half points. Eight points are all that are necessary. Hence a victory over Williams will win the cup.

At a meeting of the club held yesterday noon it was decided to run the regular fall and spring tournaments. From the eight best men, the team representing the Institute will be chosen.

The tennis club wants everybody who has ever swung a racket to enter this tournament. Weather permitting the fall meet will be held next Saturday and the entries will be drawn at 1 o'clock Friday in 21 Rogers. For the singles the entrance fee is 75 cents and for the doubles, \$1.50. Cups will be given to the winner in the singles and doubles and also to the runner-up in the singles.

At the last meeting of the club these were elected officers: T. B. Parker 1911, president and captain of the team, Malcolm Price 1910, vice-president, P. T. Wentworth 1909, manager, and Jerome Scheuer 1910, sec-treasurer.

All entries should be left at the cage for T. B. Parker, or J. K. Scheuer, Technology Chambers, before 1 o'clock Friday.

The following have already made entry. Singles: T. Fisher 1912, S. H. Cornell 1911, J. N. Brooks 1909, R. L. Cary 1909, D. V. Williamson 1910, H. P. Williams 1911, R. T. Haslam 1911, W. J. Pierce 1910, T. B. Parker 1911, Willis 1912, Little 1912, J. W. Nickerson 1909, J. K. Scheuer 1910, F. W. Cowill 1911, P. M. Wentworth 1909. Doubles: J. N. Brooks 1909 and R. L. Cary 1909, T. B. Parker 1911 and P. M. Wentworth 1909, J. K. Scheuer 1910 and F. W. Cowill 1911, M. D. Price 1910 and D. V. Williamson 1910.

MANDOLINS POPULAR

Response to Call for Candidates Good—Guitars in Need

Trials for the Mandolin Club brought out a long list of candidates yesterday at the Union. Leader H. J. Stiebel tried out the men with a few simple pieces. None of the candidates was refused, as it was only desired to get a line on their possibilities. The number will be thinned out after the first rehearsal next Friday at 4 P.M. at the Union, which all the candidates will attend.

Following are the men who reported: Mandolins—J. F. Davis 1909, H. V. S. Taylor 1910, L. L. Baxter 1910, A. A. Barnes 1909, J. B. Cheney 1911, O. B. Rowley 1912, J. W. Norfield Jr., Sp., W. Selfridge 1912, K. Cartwright 1912, H. P. Treevithick 1909, P. S. Leao 1911, H. B. Davis 1912, N. F. Tiernan 1911. Violins—R. C. Foster 1912, W. L. Collins 1912. Flute—H. H. Partridge 1912.

The club is in great need of guitars; but one of last year's men is back, and there were no new candidates. Snare drums are also desired. Men who decide to try out later may leave their names and addresses at the cage for manager D. R. Stevens 1911, and they will be notified of time for trial.

GLEE CLUB CHOSEN

The make up of the glee club for the present will be as follows.

First Tenors: C. M. Pritchard, J. E. (Continued on page 2.)

FOREIGN TEACHER COMING TO TECH

Result Due to Plans of Prussian Minister of Education

NEW ELECTIVE COURSE

Hermann A. Schumacher of Royal Gymnasium of Cologne Chosen for Place

Owing to the reduction of the modern language requirements of the Institute, the instructing staff has been reduced from eight to seven members. The department will have a French exchange teacher in Mr. Dike, fresh from his year's sojourn and study in France.

A special course in German III for students of course VI has been added. Spanish has been taken out of the third year option. Elementary, intermediate, and advanced courses in Spanish remain as electives. However, if elementary Spanish is taken and not as a substitute for French or German, it will be counted for a third or fourth year option.

The Institute will have a Prussian teacher as the result of the plans of the Prussian Minister of Education and the Carnegie Foundation, backed by the funds of the latter. This plan has been in effect for some time between Prussia, on one side, and France and Germany, on the other.

Hermann A. Schumacher, an instructor from the Royal Gymnasium of Cologne, Germany, has been selected for this position. It is not expected that these instructors will take any part in the formal instruction of the Institute. The plan, as worked out, is that they are not to do the work, or even part of the work, of a regular teacher. This would impose too heavy a burden upon the visitors and would render relationship with the students too didactic. The plan is for the visiting teacher to teach conversation in his own language in an informal manner for not more than two hours each day.

Dr. Schumacher will give a series of conversational talks in the German language upon German life and institutions during the first term beginning Monday, October 12. This course may be taken as elective by any student who has done equivalent work elsewhere. The talks will be given once a week at hours that will be announced later.

The first few talks will be on the following topics: (1) German schools and universities with special reference to student-life; (2) the German army; (3) the German government (imperial, state, and municipal); (4) German political parties; (5) the German press.

The topic for each talk will be published beforehand by bulletin in the modern language department and in the Rogers Building.

EDUCATION STUDIED

Engineering Societies Study Technical Schools

Engineering education is to be carefully studied by a Joint Committee composed of representatives of the leading professional engineering societies and from the Society for the Promotion of Engineering Education. The movement originated in the latter society, which invited the others to appoint members to the joint committee.

It has long been felt that engineering schools have not accomplished what they should. It was with a good deal of difficulty that the movement was finally completed, and it was through the efforts of Prof. Dugald C. Jackson, head of the electrical engineering department, that the result was finally accomplished.

(Continued on page 3.)

MECHANICALS DINE IN STYLE AT UNION

First Society Meeting in New Rooms Marked by Interesting Talks

TURBINE THESIS WORK

Four Seniors Traveled on Harvard to Study Performance in Service

With nearly seventy-five enthusiastic members present, the Mechanical Engineering Society held its first dinner of the season at the Union last evening. The dinner was the first event of its kind to be held in the new Trinity Place establishment, and was an affair most creditable to the new quarters.

The menu, consisting of chicken soup, ice cream, cake and coffee, put those present into a proper frame of mind for the entertainment and instruction of the evening.

The business meeting received first attention. Secretary Dewey read the minutes of the last meeting and, on account of his absence from the Institute this year, tendered his resignation. An election for secretary resulted in 25 ballots for H. C. Fisher 1909, and 26 for H. H. Marshall 1909, who received the election.

President Carlton W. Hubbard 1909 then addressed the meeting and apropos of the speaking of the evening, urged the consideration of the members in regard to speaking before the Society. He remarked that sooner or later all the men would have to appear before an audience to give them their expositions, and that speaking before friends, as was done in the Society meetings, was excellent experience.

Prof. Lanza then greeted the diners and congratulated them upon having such a large number present, and such splendid quarters to meet in. He then spoke of the practice inaugurated last year, when the Society supplied its own speakers at most of its dinners. The most interesting meetings, said Prof. Lanza, are those in which our own men get up and tell their fellows of what they know of their hobbies, or something which they have prepared for the occasion.

H. C. Fisher then gave the leading talk of the evening. He, together with C. W. Hubbard, P. E. Young, and J. F. Davis, all seniors, performed a test on the S. S. "Harvard" of the Metropolitan Steamship Co. last June as a thesis subject. The "Harvard" is 407 feet in length, 4,910 tons displacement, 16 feet draught, is equipped with three Parsons' turbines. The starboard and centre screws are right hand, and the remaining port propeller is left hand. Reverse is obtained through by-passing the steam into a low pressure rotor. The boiler battery consists of six Scotch marine boilers, in connection with which a forced draught is used. Coal is conveyed to the stokers by overhead trolleys.

In the test, the power delivered to the shaft was determined by use of a Denny and Johnson torsion dynamometer, as no indicator horse power can be found directly with a turbine. The recording apparatus was located up on the main deck, away from the noise and vibration. The shaft H. P. was found to be 10,300, at a speed of 470 R. P. M. The speed, determined by an electric log, averaged 20 knots per hour, with a maximum of 23.8 knots, which make these boats the fastest running into New York with the exception of the Mauretania and Lusitania. A set of Photographs taken in connection with the test was exhibited to the Society.

Mr. J. W. Litchfield 1885, supplied the humor of the evening, and gave some very practical advice as well, to those who are inclined to set out to work with a lost sense of perspective. After a vote of thanks to the speakers, the meeting adjourned.

THE TECH

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Wednesday, October 7, 1908.

Support from the Institute men whom they represent, is an absolute necessity for winning teams. Mention is made elsewhere in this issue of the cross-country dinner to be held Saturday night. This affords an excellent opportunity for all interested in cross-country work to hear about what has been done and what the plans for this year are.

The one great aim of these gatherings is to bring the men into closer contact with one another and thereby develop a sadly needed team spirit. A good crowd will show the men who make the team that they have a strong and enthusiastic backing. If Tech men want to see the cross-country team win the odd race in the present series with Harvard and later possibly get third place or better in the Intercollegiates this is the time for them to come out and show that they really take some interest in the biggest team that represents Technology against the other great colleges of the country.

CROSS COUNTRY

A great feature of this season's cross country work is the dinner to be held at the Union Saturday night at 6.30 P.M. Capt. Ellis of the team will be the toastmaster. Other speakers will be Coach Kanaly and E. H. Lorenz 1905. The meeting is for all men besides the regular runners who are interested in cross-country work. Past deeds and future prospects will be told about.

Tickets are 35 cents and can be obtained from R. Ellis 1909; J. D. MacKenzie 1911, C. P. Eldred 1911, L. O. Mills 1910, and J. N. Stephenson 1909. Tickets should be bought as soon as possible so that the steward may know how many to provide for.

GEOLOGICAL TRIPS

Professor Shimer of the geological department will conduct a series of five Saturday afternoon excursions. They are entirely elective and are open to all members of the Institute. Their object is to acquaint the student with some of the local animal and plant life, both recent and fossil, and through that to get a brief but general survey of the classification of organisms. For the present, this will be largely confined to a study of marine life. The series form a consecutive whole, yet each trip is complete in itself, being but slightly dependent upon the preceding ones.

Definite notice of each excursion regarding objects, trains, etc., will be announced in the issue of The Tech preceding the excursions.

Oct. 10. Winthrop Beach—Recent Life.

Oct. 17. Hayward Creek—Fossil life.

Oct. 24. North Attleboro—Fossil life.

Oct. 31. Museum Bos. Soc. Nat. Hist.—Recent and fossil local collections.

Nov. 7. Museum Comp. Zool. Harvard Univ.—General review of animal life.

GLEE CLUB CHOSEN

(Continued from page 1.)

Crowley, G. L. Mylchreest, G. F. Maglott, M. F. Turnan, A. S. Wiester, M. E. Comstock,

Second Tenors: H. R. Fox, G. R. Lord, L. G. Odell, G. F. Shaffer, H. O. Jenkins, L. G. Glazier, G. S. Humphreys, H. P. Trenthick, A. B. Richardson, P. L. Caldwell.

First Basses: K. W. Faunce, C. P. Kerr, L. Svarz, S. W. Selfridge, R. D. Francis, W. B. Jenkins.

Second Basses: C. L. Tuller, R. W. Brush, D. K. Builens, J. K. Campbell, E. M. Young.

The first rehearsal will be on Thursday at 4.15 at the Union.

CIVILS START YEAR

Yesterday afternoon President L. D. Nisbet of the Civil Engineering Society called to order the first meeting of the season. Nineteen of the old members were present. New members were suggested by the secretary. A motion that nominating committee be appointed by the chair was carried. After the adjournment the nominating committee held a meeting and the following were nominated to serve on a program committee: H. I. Pearl 1910, J. B. Babcock 1910, C. T. Wilson 1909, N. Harrub 1909, W. D. Green 1909, R. L. Cary 1909, J. N. Brooks 1909, A. B. Morrill 1909, A. L. Shaw 1909, C. Arkell 1910. These names will be voted upon at a meeting to be held to-day at 4.15 P.M. in 11 Engineering B.

BRITISHERS ELECT

The British Empire Association met in the Union yesterday noon. Only a small number of men were present.

F. R. Faulkner was elected secretary. A dinner will be arranged for Thursday, Oct. 22. New members will be admitted at next meeting.

HEALTH LECTURES

A series of lectures on personal hygiene and general health to the freshmen will begin this afternoon with a talk by Prof. Sedgwick of the biological department.

Dr. White, medical advisor at the Institute, will give the next two lectures on Tuesday, October 13 and 20, at 4 o'clock. Dr. Sargent of Harvard will give a fourth lecture at a date not yet determined.

Professor George F. Swain and F. H. Newell 1885 have been reappointed to the Waterways Commission by President Roosevelt. Prof. Swain has also been selected by Governor Guild to be a member of the state Conservation Committee acting in co-operation with the national organization.

Announcement is made of the engagement of Miss Gladys Mae Blake 1909 to Mr. Charles A. Hardy of Boston. Miss Blake was taking a course in chemistry.

Bernard Vonnegut 1876 died at his home in Indianapolis, August 7. He was a special student in architecture at the Institute and took a finishing course abroad. Later, as a member of the firm of Vonnegut & Bohn, he designed many of the important buildings of the state of Indiana. One of his sons, Kurt Vonnegut, graduated with the class of 1908.

CALENDAR

Wednesday, October 7.
1.00 P.M. Golf Club Meeting in 22 Rogers.

3.00 P.M. 1911 and 1912 Teams Practice.

4.15 P.M. Institute Committee Meeting at the Union.

4.15 P.M. C. E. Society Meeting in 11 Eng. B.

4.15 P.M. Banjo Club Trials at the Union.

Thursday, October 8
1.45 P.M. 1910 Class Meeting in Huntington Hall.

3.00 P.M. 1911 and 1912 Teams Practice.

Friday, October 9
2.00 P.M. 1911 nominations close at the Cage.

3.00 P.M. 1911 and 1912 Teams Practice.

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1911 FOOTBALL PLANS

(Continued from page 1.)
Davis, P. R. Williamson and manager A. G. Gale.

With such a field to choose from the entering class surely ought to give the sophomores a good fight, even though their team averages ten pounds less. The freshman squad averages about 150 pounds.

The engagement of Miss Bernice Mildred Randall of Medford to George Edwin Atkins 1904 is announced. Mr. Atkins is from San Francisco and a graduate of the course in naval architecture.

Steam Turbine Engineering is as up-to-date at the Institute as in the factories themselves now that the 500-kilowatt Westinghouse-Parsons turbine, with absorption brake, condenser, and wet and dry air-pumps, with complete facilities for testing has been installed in the Engineering Laboratories. This installation will be particularly advantageous to the student of Marine Engineering because the tremendous importance of the application of the steam turbine to marine propulsion.

BIOLOGICAL SOCIETY

At the meeting of the Biological Society yesterday the following men were admitted to membership in the Society: C. K. Blanchard 1909, S. M. Schmidt 1911, P. V. Wells 1911, H. L. Lang 1909, M. F. Twiner Special. It was voted that the executive committee be instructed to consider the amendment of the constitution so as to provide for striking off from the active membership list the names of former members who are now graduates. The executive committee also was delegated to investigate the cost of shingles. This evening the Society will hold a dinner in the Union, when C. F. Story 1907, will give a talk.

HARE AND HOUNDS

Waban is the place where the hare and hounds run will be held on Saturday afternoon. The gymnasium of the Waban school has been placed at the disposal of the men. Some of the finest scenery in the vicinity of Boston may be found in the country about Waban. It is through this territory that the trail will be laid.

On this run the plan of having two squads will be resumed. The men trying for the Institute team will start six minutes later than the hares, one minute in advance of the regular squad.

The time the squad will leave Trinity Place Station will be posted today. The round trip fare is 25 cents. It is hoped that the number of men coming out will be as large as it was last Saturday, when a record bunch ran.

EDUCATION STUDIED

(Continued from page 1.)
This is the first time in the history of the American professional engineering societies that a committee has been appointed to act for them. Besides Prof. Jackson, Prof. Henry F. Talbot of the chemical department, Dr. Henry S. Pritchett, former president of Technology, and Desmond Fitzgerald of the corporation are members of the committee, the latter being chairman.

The duty of the committee is to examine into "all branches of engineering education, including engineering research, graduate professional courses, undergraduate engineering instruction, and the proper relations of engineering schools to the secondary industrial schools or foremen's schools", and to prepare reports "upon the proper scope of engineering education and the degree of co-operation and unity that may advantageously be arranged between the various engineering schools." The committee is expected to spend not less than two years in the study and formulation of its report.

ATHLETICS BOOMED

Dr. Rockwell and Captain Gram Urge Participation

Dr. Rockwell, of the Advisory Committee on Athletics and holder of the Tech record for the quarter mile addressed the mass meeting in Huntington Hall Monday in the interest of Institute athletics. Dr. Rockwell outlined the history of athletics at the Institute, comparing the conditions fifteen years ago, when it was as much as a man's degree was worth to go out for a team, with the present conditions, when the faculty favor physical development as a necessity for an engineering life.

Capt. Gram of the track team urged the men to get out for fall track work either for the relay teams, in preparation for the fall meet, or for the cross country team. The latter team, he maintained, was the most important to the Institute, as the outcome of this year's intercollegiates will decide whether Tech shall become a member of the Intercollegiate Cross Country Association.

THESES OFFERS

The J. K. Brill Co. of Philadelphia offers to the seniors of the technical schools of the United States \$500 in prizes for theses on the subject: "Design of an Electric Railway Car for City Service." A thesis to be eligible for the prizes need not be prepared especially for this contest but may be the theses prepared in connection with senior graduating work. Further information may be obtained from the offices of the above company.

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BOSTON, MASS., WEDNESDAY, OCTOBER 7, 1908

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C. E. SOCIETY—Meeting in 11 Eng. B, at 4:15 P.M., Wed., Oct. 7, 1908.

BANJO CLUB—Trials at 4:15 P.M. today at the Union. Old men come also.

1910—Class meeting in Huntington Hall, tomorrow at 1:45 P.M.

1912—Lecture at 2 P.M. today by Prof. Sedgwick.

1911—Nominations for class officers must be handed in at the Cage before 2 P.M. Friday.

GOLF CLUB—Meeting today at 1 P.M. in 22 Rogers. All those interested in golf are urged to attend.

MAIL—Students should call every day at the Cage in the Union for their mail.

MANDOLIN CLUB—Rehearsal of members and all candidates Fri. 4 P.M. at the Union.

INSTITUTE COMMITTEE—Meeting Wednesday in the Union at 4:15 P.M. Full attendance requested.

1912 RELAY TEAM MEN report every afternoon at Tech Field for practice. More men needed at once to fill team.

M. A. H. S. CLUB—First meeting Thursday, Oct. 8, 7:30 P.M. Refreshments. Election of officers. Admission free.

CATHOLIC CLUB—Meeting Tuesday evening at the Union. Every Catholic in The Institute should be present, especially new men.

DRILL SUITS—For Sale, 2nd Lieut's, five feet six inches; Corp's, five feet six inches; Private's, five feet eight inches. Apply H. C. Davis, Box 44, The Cage.

STUDENT WAITERS—25 or more new waiters needed. Meet head waiter at cashier's desk in Union Wed. or Thurs. between 3 and 5, or 6:30 and 7 P.M.

KAPPA ALPIA—All members of the K. A. (Southern) fraternity at Tech at once please send names and addresses to J. R. McKissick, Sec., Boston Alumni Chapter, care of Harvard Union, Cambridge.

REPUBLICANS—All those wishing to join the Republican Club can do so by filling out a membership card and paying a fee of 25 cents. Certificates of membership and blank cards will be available in Rogers Corridor today between 12 and 4 o'clock.

All tuitions are now due. Students should pay the same immediately. If

for any reason they cannot, they should see Bursar Rand as soon as possible.

Episcopalians: The Tech chapter of the Brotherhood of Saint Andrew cordially invites all Tech men who have been connected in any way with the Episcopal Church to an informal reception to be held at 322 Beacon St., Thursday, October 8, at 8 P.M.

Books for Tech Show 1909 are now due, and none will be received after November 1. Books must be complete—no skeletons or scenarios will be considered. Each author must call at the cage for a numbered envelope. In this he is to place his name, class and address. The book submitted must bear the number corresponding to the envelope. Any book marked with the author's name will not be considered. Address this envelope and book to Richard F. Goodwin, Jr., Stage Manager. G. A. Joslin, Gen. Manager.

FACULTY NOTICE

VITAL STATISTICS—Meet in 44 Rogers tomorrow at 9 A.M.

FIRST YEAR—The first lecture to first year students on the subject of "Physical Exercise and its Relation to Health" will be given in Huntington Hall today at 2 P.M.

SUMMER SCHOOL TRIPS

Last June, a party of 19 men from courses V, VIII, and X took a trip through New Jersey and Pennsylvania. Among the twenty-six places visited were the Manhattan Rubber Company, Passaic, N. J., Colgate & Co., Jersey City, N. J., Murphy Varnish Company, Newark, N. J., Nichols Copper Company, Laurel Hill, L. I., Bethlehem Steel Company, H. J. Heinz Company, Carnegie Steel Company, and the Lehigh Portland Cement Company. The excursionists were cordially received everywhere.

Although small, the party of four on the mining summer school trip thoroughly enjoyed themselves at the Londonderry Iron Mining Company at Torbrook, Nova Scotia, the Dominion Iron and Steel Company at Sydney, and at the gold mine of the Boston-Richardson Mining Company. During the whole trip a careful study was made of ground traversed which is of particular geological interest in Nova Scotia.

Few people at the Institute realize that Hiram P. Maxim, the inventor of the new noiseless gun, is a Tech man, but as a matter of fact he attended the Institute as a special student with the class of 1886. His weapon as at present developed is of use chiefly as an instrument of humane slaughter of animals, but with improvement it is likely to become the standard army rifle of the future, and as such may be a potent factor in establishing universal peace.

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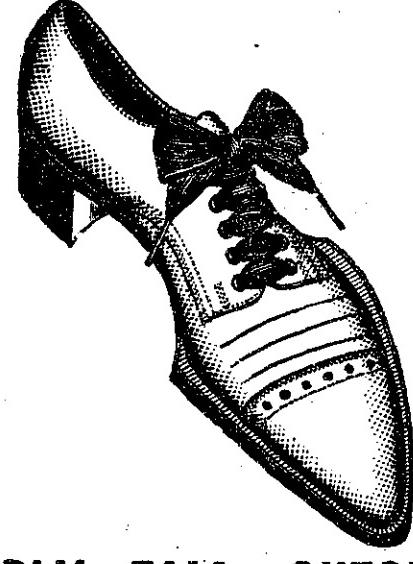
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